What else we would love to know

- Q. What are the assumptions that you made during the implementation
- A. I assumed that both selections.csv and clicks.csv are locally available as I am mounting them as volume
- Q. What are the performance characteristics of your implementation?
- A. This app is minimalistic implementation, It runs as N threads under gunicorn+flask. It performs well under the load as depicted in load_images folder.
- Q. If you could load test it, what do you expect to see in the result?
- A. The results are depicted in load_images folder
- Q. If you had more time, how would you improve your solution?
- A. Many things
 - a. Use of async f/w like aiohttp, sanic to serve more requests
 - b. Secure the APIs with tokens
 - c. Build a caching mechanism for the most frequent user_ids
 - d. Kubernetize the app as this is very stateless so that we can scale easily.

Bonus

- What other user insights could we possibly generate from this data?
 - Hotels clicked by users in given region
 - $_{\circ}$ A trend of users' clicked hotels thus we can show him more relevant hotels
 - o What hotels are most popular in given region?
 - What hotels are most famous for given period?
 - o What amenities are most checked by user at some period?
- If you had to update the data source in real time, how would your solution change?
 - In that case, we need to restart the container as csvs are loaded first thing at startup not for each and every request.
- What comments would you expect when this goes to a code review?
 - o No use of blueprints in flask-app
 - o Any other uWSGI compliant framework